Goodmans

GMR1886DAB
DAB Digital Radio
User Guide

IMPORTANT: Please read all instructions carefully before use and keep for future reference

Introduction

Thank you for choosing this DAB digital radio which has been designed and manufactured to give you many years of trouble-free service.

You may already be familiar with using a similar product but please take the time to read these instructions which have been written to ensure you get the very best from your purchase.

Safety is important

Use of any electrical equipment should be undertaken with care. Please read the safety section on page 18 before using your DAB digital radio. This appliance is for household use only.

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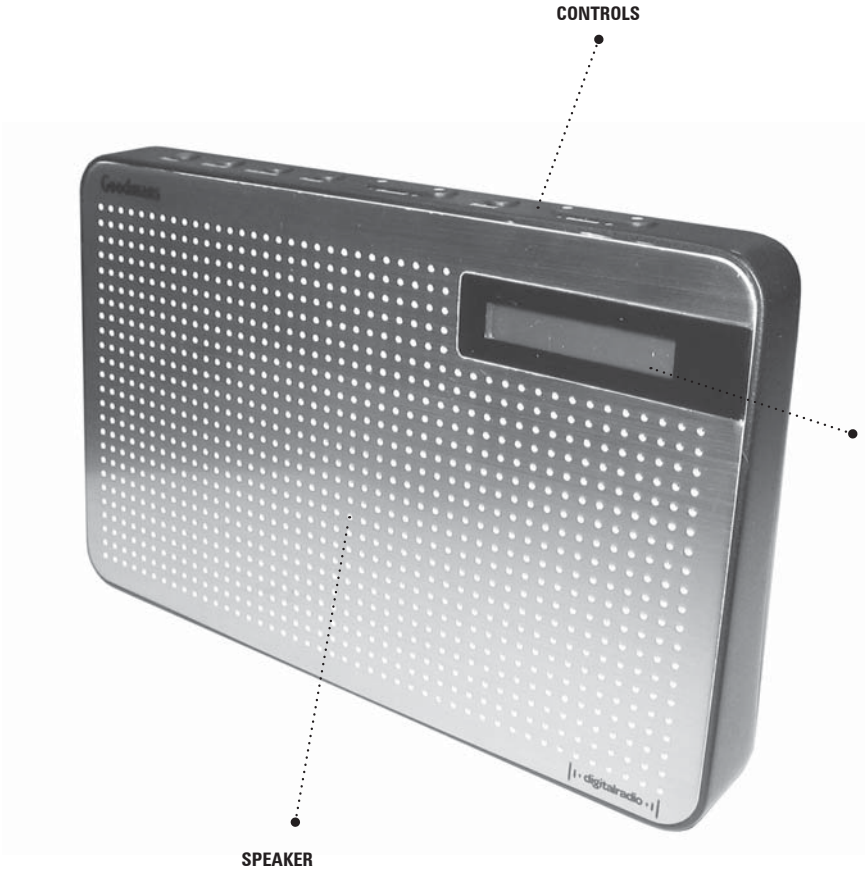
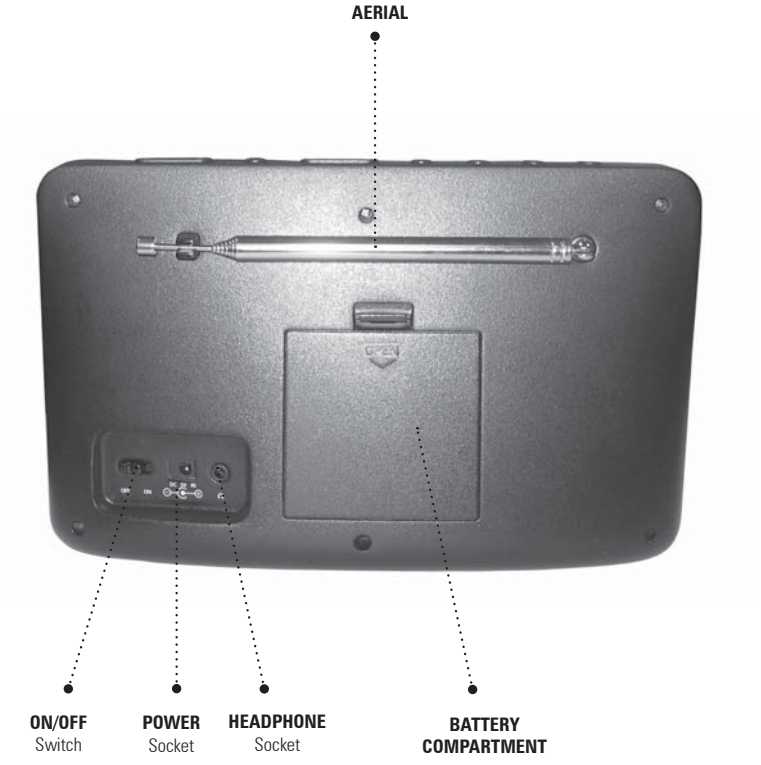
Your DAB Digital Radio 01

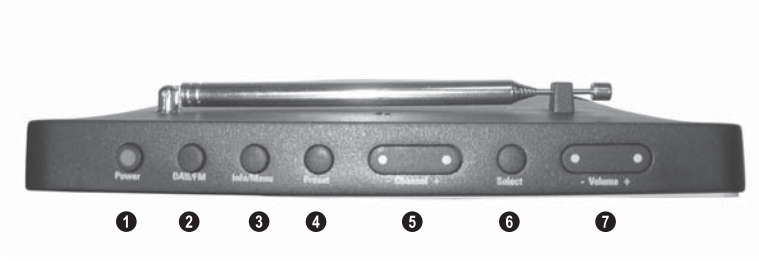
Front view



01 Your DAB Digital Radio

Rear view





1. **Power button**. Used to switch the DAB digital radio to/from standby.

2. **DAB/FM button**. Used to switch between DAB and FM modes.

3. **Info/Menu button**. Used to access information about the station being played or navigate the system menus.

4. **Preset button**. Used to access preset stations.

5. **Channel +/- button**. Used to change channels.

6. **Select button**. Used to select options on the system menus.

7. **Volume +/- button**. Used to change the volume.

02 What is Digital Radio?

DAB (Digital Audio Broadcasting) is the next generation of radio.

DAB was developed in Europe by a consortium of broadcasters and manufacturers.

DAB uses digital compression techniques to transform the source material, i.e. music and speech, into digital code before it is transmitted. The code consists of electronic 'ones and zeros' called binary digits or bits. The binary code is then multiplexed or grouped together to create a superior signal, when compared with the older analogue system, with the following key benefits:

Near CD quality sound.

Because DAB is binary coded, the receiving equipment is only expecting to receive a series of ones and zeros, so any other interference is ignored, resulting in very high quality audio.

Interference free reception.

Analogue systems suffer from an effect called 'multipath distortion'. This is caused because waves do not behave in an orderly fashion, but bounce and reflect off buildings etc. DAB sees this as an advantage and uses the direct and reflected signals to actually reinforce the end result.

No need to re-tune.

A single DAB frequency can be used to cover the whole of the UK, so solving many of the problems experienced with the earlier analogue system. DAB can automatically tune-in all of the available stations in your area.

Unpack Your DAB Digital Radio

Carefully remove your DAB Digital Radio from the box. You may wish to store the packaging for future use.

In the Box

Inside the box you will find:

- DAB Digital Radio
- Mains power supply lead
- User Guide

If any of these items are missing please contact the Customer Helpline.

Positioning Your DAB Digital Radio

Place your DAB Digital Radio on a flat, stable surface that is not subject to vibrations.

- Avoid the following locations:
- Where it is exposed to direct sunlight.
- Where it is close to heat radiating sources.
- Where the humidity is high and ventilation is poor.
- Where it is dusty.

Adjusting the Aerial

The aerial should be fully extended to ensure good reception in both DAB and FM radio modes. The DAB digital radio has an internal aerial for MW. It may be necessary to alter the position of the DAB digital radio and/or the aerial to achieve the best signal.

Using Headphones

You will require headphones fitted with a 3.5mm diameter stereo plug and an impedance of 8-32 ohms.

Headphones are not supplied with this DAB Digital Radio.

Battery Operation

Before installing batteries, ensure that the DAB digital radio is switched off and disconnected from the mains supply.

Remove the battery cover, then remove the batteries and insert new ones. Finally, replace the cover.

If you are not going to use the DAB digital radio for an extended period, please remove the batteries to avoid damage.

Caution: Danger of explosion if battery is incorrectly replaced. Replace only with the same or eqivalent type.

Mains Operation

Your DAB/AM.FM Radio requires a mains supply of 230V AC ~ 50 Hz. Please ensure that your mains supply is compatible before use.

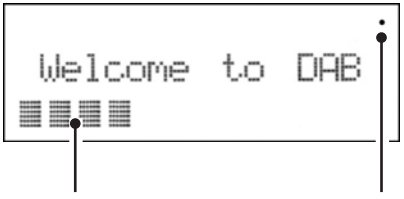
Connect the mains lead and switch the mains supply socket on.

Disconnect the Power Cord from the mains when not in use.

Switching On for the First Time

To switch on, turn the On/Off switch to the right. The DISPLAY will illuminate and '`Welcome to DAB`' will be displayed.

The DAB digital radio will automatically begin to scan for stations. The screen shown below is displayed. A bar graph indicates the progress of the search.



Progress bar

Signal Strength Symbol

When the scan is complete, the DAB digital radio will select the first available station - stations are listed in numerical then alphabetic order.

The station list is retained in memory so the next time you switch the DAB digital radio on, the station search does not take place.

If there are no stations found, check that adequate DAB coverage exists in your area.

It is possible to perform a manual scan for stations, see See Manual Tune on page 13.

Changing DAB Stations

Press the CHANNEL +/- button to scroll up and down the list of available stations. The station names will appear on line 3 of the display.

When the desired station is displayed, press SELECT. The DAB digital radio will tune to that station.

Adjusting the Volume

Press the VOLUME +/- button to increase or decrease the volume.

Scanning for DAB Stations

Due to the nature of DAB radio, additional stations and services regularly become available. If you wish to see if there have been any new DAB stations introduced in your area you can initiate a search.

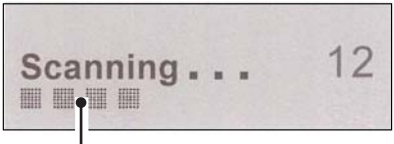
To iniate a search:

1. Press and hold the INFO/MENU button to display the menu system.

2. Use the CHANNEL +/- button to select the FULL SCAN option.

3. Press the SELECT button to activate a local search for stations.

The DAB digital radio will automatically begin to scan for stations. The screen shown below is displayed. A bar graph indicates the progress of the search and the number of stations found as the scan progresses.



Progress bar

Station Display Symbols

You may see some symbols displayed alongside the station names. These are defined as follows:

? This is displayed before the station name if the station is not available or not active.

>> Chevrons displayed after the station name indicate that this is a primary station with secondary services.

<< Chevrons displayed before the station name indicate that this is a secondary station.

Storing DAB Presets

You can preset up to 10 DAB stations for easy access as follows:

1. Tune to the station you wish to preset.

2. Press and hold the PRESET button.

3. Use the CHANNEL +/- button to select an empty preset slot.

4. Press the SELECT button to store the station in the preset. '`Preset # saved`' will appear on the second line of the display, where # is the number of the preset position.

If you have already saved a DAB station in that preset location, it will be over-written with the new station.

Selecting a Preset Station

To select a preset station:

1. Press the PRESET button.

2. Use the CHANNEL +/- button to select the required preset slot.

3. Press the SELECT button to switch to the station.

If you have not already stored a DAB station in one of the presets, '`Empty preset`' will be displayed. The display will revert to the previously selected station after a few seconds.

Reset

You can delete all of the preset stations and return the DAB digital radio to its factory settings as follows:

1. Press and hold the INFO/MENU button.

2. Use the CHANNEL +/- button to select the SYSTEM option.

3. Press the SELECT button.

4. Use the CHANNEL +/- button to select the FACTORY RESET option.

5. Press the SELECT button.

6. The display will show '`Press SELECT to confirm reset...`'

7. Press the SELECT button. The display will show '`Welcome to DAB`' before performing a new scan for stations.

The DAB digital radio will be returned to its factory condition.

Changing the DAB Display Information

It is possible to change the information that is displayed on the third line of the display when listening to a DAB station. Note that this information is not available when listening to conventional FM stations.

There are seven types of information available listed below with examples listed to the right of the text. To change the information displayed press the INFO/MENU button repeatedly.

Dynamic Label Segment (DLS)

This is scrolling text information supplied by the DAB station. It may comprise information on music titles or details of the programme and is provided by the broadcaster.

Program Type (PTY)

This is a description of the type of programme provided by the DAB station and is provided by the broadcaster.

Multiplex Name

This will show the multiplex that is broadcasting the programme you are listening to.

Time and Date

This displays the time and date and is provided by the broadcaster, so will be accurate.

Channel and Frequency

This displays the channel number and the transmission frequency.

Signal Information

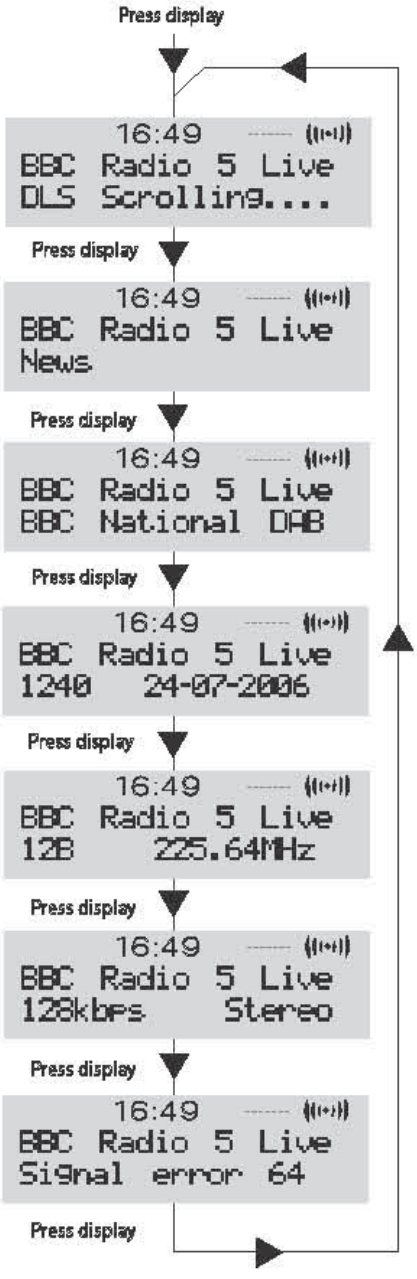
This shows the digital bit-rate and the signal mode.

Signal Error Rate

If the transmission signal contains errors the system can apply correction.

The amount of signal correction can be displayed as a numerical value between 0 and 99. As the value increases, you will hear the signal degrade.

To improve reception, try adjusting the position of the aerial.


Press display
16:49
BBC Radio 5 Live
DLS Scrolling....
Press display
16:49
BBC Radio 5 Live
News
Press display
16:49
BBC Radio 5 Live
BBC National DAB
Press display
16:49
BBC Radio 5 Live
1240 24-07-2006
Press display
16:49
BBC Radio 5 Live
12B 225.64MHz
Press display
16:49
BBC Radio 5 Live
128kbps Stereo
Press display
16:49
BBC Radio 5 Live
Signal error 64
Press display

Using the Menu System

The INFO/MENU button allows you to change some of the system options on your DAB digital radio. These options are arranged in a menu structure as shown below.

Pressing and holding the INFO/MENU button will enter the menu control. The options are described below.

Full Scan

Selecting this option initiates a full scan. See Scanning for DAB Stations on page 8.

Manual Tune

Select this option to manually tune to a specific channel/frequency and add this to the station list.

DRC

Select this option to change the Dynamic Range Control (DRC) setting. See page 14.

Prune

Select this option to remove the currently selected station. The station will no longer be selectable until you run a full or manual scan to add it back in.

System

Select this option to display the system menu.

System Menu

Pressing and holding the INFO/MENU button and selecting the SYSTEM option will enter the system menu. The options are described below.

Sleep

Select this option to set the time before the DAB digital radio switches itself off. This is useful if you want to fall asleep listening to the radio.

Press the CHANNEL +/- button to scroll up and down the list of available options. The options are: OFF, 15, 30, 45, 60 or 90 minutes.

Backlight

Select this option to set the time before the backlight on the display switches off.

Press the CHANNEL +/- button to scroll up and down the list of available options. The options are: ON, 10, 20, 30, 45, 60, 90, 120 or 180 seconds.

Language

Select this option to change the language used for the menu options.

Press the CHANNEL +/- button to scroll up and down the list of available options.

Factory Reset

Select this option to reset the DAB digital radio. See page 9.

Sw Version

Select this option to display the current version of software in the DAB digital radio. See page 13.

Manual Tune

It is possible to manually tune to a specific channel/frequency and add this to the station list.

This function can be used to obtain the optimum reception for a specific channel/frequency, taking into account the position of the aerial.

1. Press and hold the INFO/MENU button to access the menu system.
2. Use the CHANNEL +/- button to select the MANUAL TUNE option.
3. Press the SELECT button.
4. Use the CHANNEL +/- button to select the desired channel/frequency.
5. Press the SELECT button.

A rectangle will be displayed on the second line of the display. The position of this rectangle indicates the signal strength (the further towards the right, the greater the signal strength).

6. Adjust the position of the aerial to obtain the optimum signal strength.
7. Press the SELECT button to confirm.

Software Version

This is only provided as an engineers reference in the unlikely event that servicing should ever be necessary.

1. Press the INFO/MENU button to access the menu system.
2. Use the CHANNEL +/- button to select the SYSTEM option.
3. Press the SELECT button.
4. Use the CHANNEL +/- button to select the SW Version option.
5. Press the SELECT button.

The version number will appear on line 2 of the display.

Dynamic Range Control

DRC adds or removes a degree of compression to compensate for the differences in the dynamic range between radio stations. For example, a station broadcasting popular music may have a high level of compression applied since the emphasis is on a constant high listening level, whereas a station broadcasting classical music will have little or no compression as the listener requires all of the highs and lows in the music to define the detail.

There are three levels of compression:

- OFF No compression applied.
- HIGH Maximum compression applied (this is the default).
- LOW Medium compression applied.

The best way to determine which of these settings suits you best is to experiment with them on a variety of source material.

1. Press the INFO/MENU button to access the menu control.

2. Use the CHANNEL +/- button to select the DRC option.

3. Press the SELECT button. The current DRC level will be displayed on line 2 of the display.

4. Press the CHANNEL +/- button to select between the three DRC values. The available options appear on line 3 of the display.

5. When the required DRC value is displayed press the SELECT button to confirm. You should be able to hear the difference in compression immediately.

6. Prune station.

   No

   Yes

Switching to FM Mode

If the DAB digital radio is in DAB mode, press the FM button. You may hear background noise if no station has been tuned in.

Tuning the Radio

To tune into a radio broadcast/station press and hold the CHANNEL +/- button until the DAB digital radio begins scanning for available stations. The scan will stop when a station is found.

To continue scanning press and hold the CHANNEL +/- button again.

Adjusting the Volume

Press the VOLUME +/- button to increase or decrease the volume.

06 Troubleshooting

Problem	What to do
There is no sound from my radio	Check that the volume is not set to the minimum. Make sure that the radio has been able to locate DAB/FM stations.
The display shows 'NO SERVICES AVAILABLE' in DAB mode	Make sure that DAB coverage exists in your area. Try adjusting the position of the aerial or location of the radio.
Poor reception	As with any radio service, there will be areas of weak signal that may cause poor reception. Follow the instructions for Manual Tuning on page 13 and adjust the aerial while monitoring the signal strength until the optimum signal is obtained. If reception is still poor, try re-locating the radio to another part of the room.
I cannot access secondary services	At the time of publishing this manual not many secondary services are available in the UK. This will increase as more DAB stations start broadcasting. If a secondary service station is available, the secondary indicator '>>' will be displayed next to the station name.
The display has gone blank or says 'SERVICE OFF AIR'	This may occur if a broadcaster changes the label of a service or removes a label whilst you are listening to the station. The radio will try to re-tune to the station. Alternatively, perform a scan by pressing the AUTO button.
I cannot hear the station I have selected	The station you are listening to is displayed on line 2. Line 3 shows the selected option, but you have to press the SELECT button to tune to the selected station.
I hear distortion on some stations	This is due to a weak signal. Try re-positioning the aerial to gain maximum signal strength. If the trouble persists, consult your dealer or contact the Customer Helpline.

Technical Specification 07

Model Number	GMR1886DAB
Power Supply	230V AC ~ 50 Hz 4 x AA batteries
DAB Specifications	RF section: Band III, 174 MHz to 240 MHz
Input	50R, nominal

Due to the continual improvement of our products, specifications are subject to change without notice

08 Warnings

WEEE

This appliance is labelled in accordance with European Directive 2002/96/EG concerning used electrical and electronic appliances (Waste Electrical and Electronic Equipment - WEEE). The guideline determines the framework for the return and recycling of used appliances.

Sound levels

Your hearing is very important to you and to us, so please take care when using this DAB digital radio. It is strongly recommended that you follow the listed guidelines in order to prevent possible damage or loss of hearing.

Establish a safe sound level

Over time your hearing will adapt to continuous loud sounds and will give the impression that the volume has in fact been reduced. What seems normal to you may in fact be harmful. To guard against this **before your hearing adapts**, set the volume to a low level.

Slowly increase the level until you can hear comfortably and clearly and without distortion. Damage to your hearing is accumulative and is irreversible. Any ringing or discomfort in the ears indicates that the volume is too loud.

Once you have established a comfortable listening level, **do not increase the sound level**.

General safety

Ensure that you read all of the safety instructions before using this unit.

This DAB digital radio has been designed and manufactured to meet European safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

Do read these operating instructions before you attempt to use the DAB digital radio.

Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made in accordance with the manufacturer's instructions.

Switch off and remove the mains plug when making or changing any connections.

Do consult your dealer if you are ever in doubt about the installation, operation or safety of your DAB digital radio.

Don't remove any fixed covers as this may expose you to dangerous voltages.

Don't continue to operate the DAB digital radio if you are ever in doubt about it working normally, or if it is damaged in any way. Switch it off withdraw the plug from the mains and consult your dealer.

There are no user serviceable parts in the DAB digital radio. When servicing, refer to qualified service personnel.

Don't leave the DAB digital radio switched On when it is unattended for long periods of time, unless it is specifically stated that it is designed for unattended operation or has a standby mode.

Don't obstruct the ventilation vents on the DAB digital radio, for example with curtains or soft furnishings, as this may cause overheating.

Do not place the unit in closed bookcases or racks without proper ventilation.

Do not use the unit in humid or damp conditions or allow it to be exposed to rain or moisture.

Store the DAB digital radio in a clean, dry environment.

The DAB digital radio shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on it.

Position the power cable and other connected cables so that they are not likely to be walked on, pinched or where items can be placed on or against them.

Never allow children to insert foreign objects into holes or slots on the unit.

No naked flame sources, such as lighted candles, should be placed on the unit.

Disconnect the unit from the mains supply before cleaning.

Do not use any liquids or aerosol cleaners, as this may damage the unit. Use a soft, dust free cloth.

When replacing the batteries make sure that you use the same size and type.

Do not insert a mix of new and used batteries in the DAB digital radio. If you are replacing the batteries make sure that you replace them all.

Please ensure that used batteries (not included) are disposed of safely.

Do not dispose of batteries (not included) in fire.

Contact local authorities for means of disposal.

Consult your dealer if you are ever in doubt about the installation, operation, or safety of the DAB digital radio.

Make sure that other people in your household are conversant with the DAB digital radio.

In case of malfunction due to electrostatic discharge, reset the product as described in Reset on page 9 (reconnection of the power source may be required) to resume normal operation.

09 Electrical information

The mains lead supplied with this DAB digital radio is fitted with a BS1363/A 13 amp plug. If it is not suitable for your supply sockets it must be replaced with an appropriate plug.

If the plug becomes damaged and/or needs to be replaced please follow the wiring instructions below. The plug removed must be disposed of immediately. It must not be plugged into a supply socket as this will be an electrical hazard.

If the fuse needs to be replaced it must be of the same rating and ASTA approved to BS1362. If the plug is changed, a fuse of the appropriate rating must be fitted in the plug, adapter or at the distribution board. If the fuse in a moulded plug is replaced, the fuse cover must be refitted before the appliance can be used.

Wiring instructions

The supply cable will be either 2-core or 3-core. Follow the appropriate wiring instructions given below. In both cases ensure that the outer sheath of the cable is firmly held by the cable clamp.

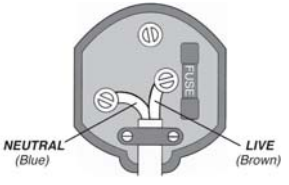
2- Core plug

⚠ **WARNING**: Do not connect either wire to the earth terminal.

This symbol indicates that this 2-core appliance is Class II and does not require an earth connection.

The wire coloured blue must be connected to the terminal marked with the letter N or coloured black.

The wire coloured brown must be connected to the terminal marked with the letter L or coloured red.



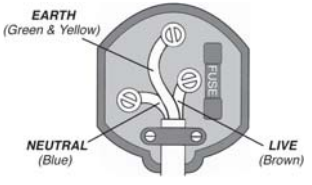
3- Core plug

⚠ **WARNING**: This appliance must be earthed.

The wire coloured green and yellow must be connected to the terminal marked with the letter E, or by the earth symbol ⏚, or coloured green or green and yellow.

The wire coloured blue must be connected to the terminal marked with the letter N or coloured black.

The wire coloured brown must be connected to the terminal marked with the letter L or coloured red.



Guarantee 10

The DAB digital radio is guaranteed for twelve months from the date of original purchase. If any defect should occur due to faulty materials or workmanship, contact Goodmans via the website (www.goodmans.co.uk). Have your receipt of purchase on hand.

The guarantee is subject to the following provisions:

- It is only valid within the boundaries of the country of purchase.
- The product must be correctly installed and operated in accordance with the instructions contained in this User Guide.
- The DAB digital radio must be used solely for domestic purposes.
- The guarantee will be rendered invalid if the DAB digital radio is re-sold or has been damaged by inexpert repair.
- The manufacturer disclaims any liability for incidental or consequential damages.
- The guarantee is in addition to, and does not diminish, your statutory or legal rights.

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